

Abstract

Bidirectional hydraulic pump that comprises a hydraulic body (1) comprising an inlet port (2) from which receives a water flow, a first outlet port (3) and a second outlet port (4); an impeller housed in said hydraulic body (1), which causes the water flow to move in either one direction or the other; and a valve body (5) that surrounds the impeller. The valve body (5) comprises at least one orifice (6) and said valve body (5) is slid able on the internal surface of the hydraulic body (1) in one direction or the other, due to the action of the water flow, between a first position wherein the orifice (6) is aligned with the first outlet port (3) and a second position wherein the orifice (6) is aligned with the second outlet port (4).